

SRF CAVITY MANUFACTURING

Tuesday 01/12/20

Chicago Time	Duration	Title	Participants	Institute
Topic-1: Niobium specs for high-Q0 cavities				
9:10 AM	0:05	Introduction	A Puntambekar L Monaco	RRCAT INFN
9:15 AM	0:30	Which issues in achieving required RRR and grain size? Which are the qualified vendors today? Introduction by moderators followed by open discussion.	J Rathke	FRIB
			E Cenni	CEA
			S Chandrasekaran / G Wu	FNAL
			G Olivier	IN2P3
			D Sertore / M Bertucci	INFN
			V K Jain / S M Bagre	RRCAT
			A Wheelhouse	STFC
Topic-2 :Cavity and sub-components EBW and handling:				
9:45 AM	0:45	Vertical vs. horizontal EBW: pro vs. cons? Where does the inclusions and scratches might come from nowadays? Which are the reference procedure for a clean assembly? Forming: how to control control profile and thinning? Introduction by moderators followed by open discussion.	J Rathke	FRIB
			E Cenni	CEA
			M Foley / L Ristori	FNAL
			G Olivier	IN2P3
			L Monaco	INFN
			V K Jain / S M Bagre	RRCAT
			A Wheelhouse	STFC
10:30 AM	0:10	Break		
Topic-3 : Cavity and subcomponents manufacturing diagnostics:				
10:40 AM	1:00	Eddy current scanning: is it still needed? Which diagnostic during manufacturing? Visuals, Replicas, XRF? And when in the cycle: after EBW, after treatments? Which other non-destructive diagnostic? Is grinding harmful to cavity performances? Introduction by moderators followed by open discussion.	J Rathke	FRIB
			E Cenni	CEA
			M Foley / L Ristori	FNAL
			G Olivier	IN2P3
			D Sertore / L Monaco	INFN
			V K Jain / S M Bagre	RRCAT
			M Ellis	STFC
11:40 AM	0:20	Closing remarks / Summary	Avinash / Laura	RRCAT/ INFN
12:00 AM	0:00	Session End		

Wednesday 02/12/20

Time	Duration	Title	Presenter	Institute
Topic-4 : Cavity integration (tank, tuner, etc.) in helium tank (aka dressing or jacketing):				
7:30 AM	0:05	Introduction	A Puntambekar L Monaco	RRCAT INFN
7:35 AM	1:00	How challenging are requirements for vendor? How integration qualification is performed? Cavity inner volume during integration: vacuum or not? How to control of cavity frequency and prevent field-flatness degradation? Introduction by moderators followed by open discussion.	J Rathke	FRIB
			E Cenni / V Hennion	CEA
			M Foley / G Ereemeev / L Ristori	FNAL
			G Olivier	IN2P3
			A Bosotti / R Paparella	INFN
			V K Jain / S M Bagre	RRCAT
			M Ellis	STFC
Topic-5 : Quality control of cavity production:				
8:35 AM	0:45	Has been External Quality Control (Additional QA/QC asked by orderers) applied? How to successfully transfer and fulfill required specifications? Introduction by moderators followed by open discussion.	J Rathke	FRIB
			C Cloue / V Hennion	CEA
			T Digrazia / M Luedke	FNAL
			G Olivier	IN2P3
			L Monaco	INFN
			V K Jain / S M Bagre	RRCAT
			M Ellis	STFC
9:20 AM	0:10	Closing remarks / Summary	A Puntambekar L Monaco	RRCAT INFN
9:30 AM	0:15	Break		